

Title (en)

BURST OSCILLATION DEVICE, BURST OSCILLATION METHOD, AND RANGING/COMMUNICATION SYSTEM

Title (de)

BURSTOSZILLATOR, BURSTOSZILLATIONSVERFAHREN UND KOMMUNIKATIONSSYSTEM FÜR DISTANZMESSUNG

Title (fr)

DISPOSITIF ET APPAREIL D'OSCILLATION DE RAFALE ET SYSTÈME DE COMMUNICATION DE MESURE DE DISTANCE

Publication

EP 1986019 B1 20160413 (EN)

Application

EP 07744370 A 20070530

Priority

- JP 2007060955 W 20070530
- JP 2006153313 A 20060601

Abstract (en)

[origin: EP1986019A1] The burst oscillation device 20 includes the data generation part 21, the operation part 11, the signal selecting part 40 and the burst generation part 50. The generation part 21 outputs the encoded data encoded based on data for communication. At the signal selecting part 40, the pulse release timing of predetermined repetition period is randomly delayed by the PPM and further delayed randomly by the minimal time by means of the PSK modulation, thereby realizing the decreasing of the peak value of the average power spectral density.

IPC 8 full level

G01S 7/282 (2006.01); **G01S 13/22** (2006.01); **G01S 13/24** (2006.01); **G01S 13/28** (2006.01); **H03K 7/04** (2006.01); **H04B 1/04** (2006.01); **H04B 1/40** (2006.01); **H04B 1/69** (2011.01); **H04J 13/00** (2011.01); **H04L 25/49** (2006.01); **G01S 13/08** (2006.01); **G01S 13/931** (2020.01); **H04B 1/717** (2011.01); **H04B 15/04** (2006.01); **H04L 27/18** (2006.01); **H04W 24/00** (2009.01)

CPC (source: EP US)

G01S 7/006 (2013.01 - EP US); **G01S 7/023** (2013.01 - EP US); **G01S 7/0232** (2021.05 - EP US); **G01S 7/282** (2013.01 - EP US); **G01S 13/08** (2013.01 - EP US); **G01S 13/22** (2013.01 - EP US); **H04B 1/7174** (2013.01 - EP US); **H04B 15/04** (2013.01 - EP US); **H04L 25/4902** (2013.01 - EP US); **H04L 27/18** (2013.01 - EP US); **G01S 13/0209** (2013.01 - EP US); **G01S 13/931** (2013.01 - EP US); **G01S 2013/9316** (2020.01 - EP US); **H04B 2215/061** (2013.01 - EP US); **H04B 2215/067** (2013.01 - EP US); **H04W 24/00** (2013.01 - EP US)

Cited by

CN107209262A; EP3164733A4

Designated contracting state (EPC)

DE

DOCDB simple family (publication)

EP 1986019 A1 20081029; **EP 1986019 A4 20140326**; **EP 1986019 B1 20160413**; JP 5027120 B2 20120919; JP WO2007139131 A1 20091008; US 2008260019 A1 20081023; US 8559549 B2 20131015; WO 2007139131 A1 20071206

DOCDB simple family (application)

EP 07744370 A 20070530; JP 2007060955 W 20070530; JP 2008517954 A 20070530; US 13855208 A 20080613